Fairview Microwave
RF COMPONENTS ON DEMAND. Done!

# SA4018-15
# DATA SHEET

## 15 dB Fixed Attenuator 2.92mm Male To 2.92mm Female Up To 40 GHz Rated To 2 Watts With Passivated Stainless Steel Body

Fairview Microwave carries a broad selection of fixed attenuators with a wide range of attenuation levels, frequency ranges, and power dissipation ranges. Also known as RF pads, RF microwave attenuators lower the amplitude of a signal (or attenuate) a known amount. These attenuator pads can be used in a wide variety of applications including reducing a signal level to protect measurement equipment or other circuitry, extending the range of power meters and amplifiers, and impedance matching circuits by reducing the VSWR seen by adjacent components. RF attenuators can prevent signal overload in amplifiers, receivers and detectors, adjusting the signal level to a range that is optimal.

Few RF components are as commonly used as fixed coaxial attenuators, and Fairview Microwave carries one of the largest in-stock selections and ships them same day. The SA4018-15 is a 15 dB Fixed Attenuator that operates from DC to 40 GHz and is rated to 2 Watts. The versatile coaxial package uses 2.92mm male to 2.92mm female connectors and is also REACH and RoHS compliant.

### Features:

- DC to 40 GHz Frequency Range
- Attenuation 15±0.8 dB
- Max Power 2 Watts (CW)
- Typical VSWR 1.4:1

### Applications:

- Instrumentation
- Precision measurements
- Prototyping and characterization
- Production systems

## Electrical Specifications

| Description | Min | Typ | Max | Units |
|---|---|---|---|---|
| Frequency Range | DC | | 40 | GHz |
| Impedance | | 50 | | Ohms |
| Nominal Attenuation | | 15 | | dB |
| Attenuation Accuracy | | ±0.8 | | dB |
| VSWR | | 1.4:1 | 1.6:1 | |
| Input Power, CW<br>derated linearly to 0% at +125°C | | | 2 | Watts |
| Input Power, Peak<br>1µs pulse, 1% duty cycle | | | 100 | Watts |

## Mechanical Specifications

**Size**

| | |
|---|---|
| Length | 1.04 in [26.42 mm] |
| Width/Diameter | 0.312 in [7.92 mm] |
| Weight | 0.015 lbs [6.8 g] |
| Body Material and Plating | Passivated Stainless Steel |

**Configuration**

| | |
|---|---|
| Design | Fixed |
| Package Style | Connectorized Module |

**Connectors**

| Description | Connector 1 | Connector 2 |
|---|---|---|
| Type | 2.92mm Male | 2.92mm Female |
| Connector Spec. | MIL-C-39012 | MIL-C-39012 |
| Contact Material & Plating | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Contact Plating Spec. | 1.3µm | 1.3µm |
| Outer Conductor Material & Plating | Passivated Stainless Steel | Passivated Stainless Steel |

Fairview Microwave
1130 Junction Dr. #100
Allen, TX 75013
Tel: 1-800-715-4396 / (972) 649-6678
Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

| | | |
|---|---|---|
| Coupling Nut Material & Plating | Passivated Stainless Steel | |
| Body Material & Plating | Passivated Stainless Steel | Passivated Stainless Steel |

## Environmental Specifications

**Temperature**

| | |
|---|---|
| Operating Range | -55 to +125 deg C |
| Storage Range | -55 to +125 deg C |

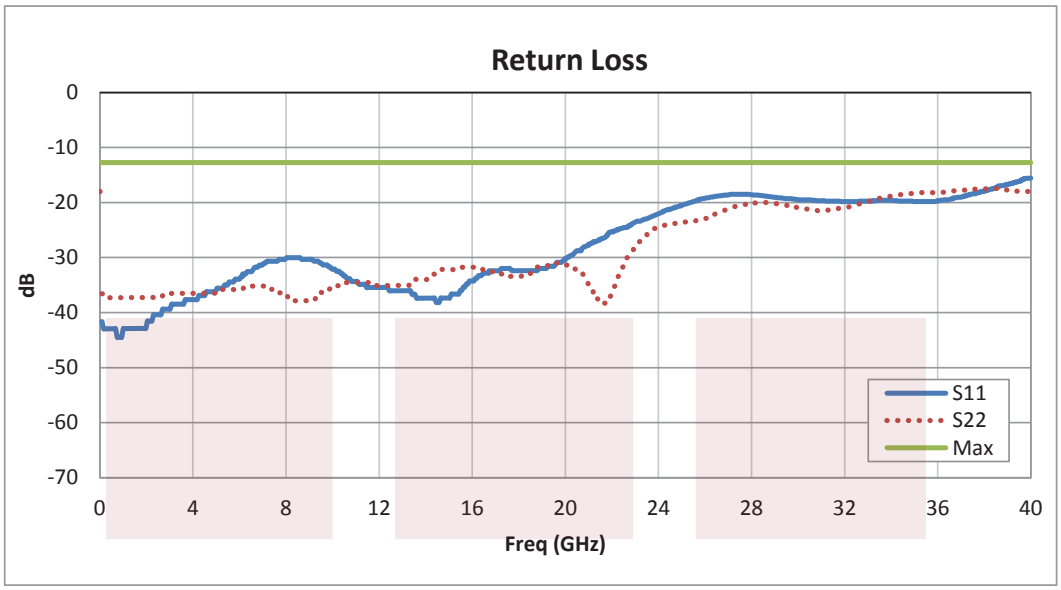
## Compliance Certifications (visit www.FairviewMicrowave.com for current document)

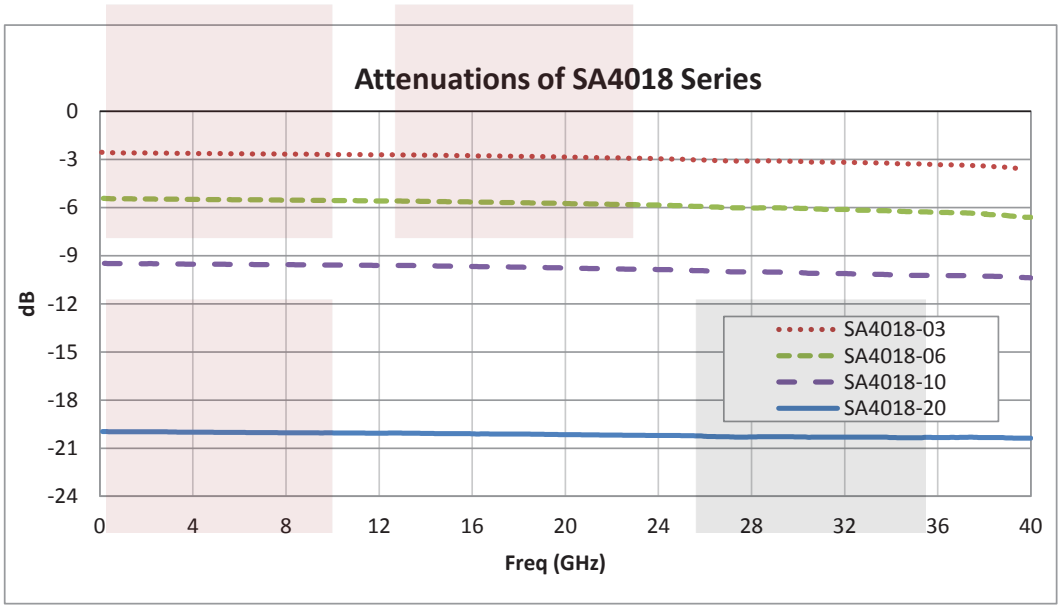
| | |
|---|---|
| RoHS Compliant | Yes |
| REACH Compliant | 12/17/2015 |

## Plotted and Other Data

Notes:

**Typical Performance Data**



15 dB Fixed Attenuator 2.92mm Male To 2.92mm Female Up To 40 GHz Rated To 2 Watts With Passivated Stainless Steel Body from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: 15 dB Fixed Attenuator 2.92mm Male To 2.92mm Female Up To 40 GHz Rated To 2 Watts With Passivated Stainless Steel Body SA4018-15

URL: http://www.fairviewmicrowave.com/15db-fixed-attenuator-2.92mm-male-2.92mm-female-2-watts-sa4018-15-p.aspx

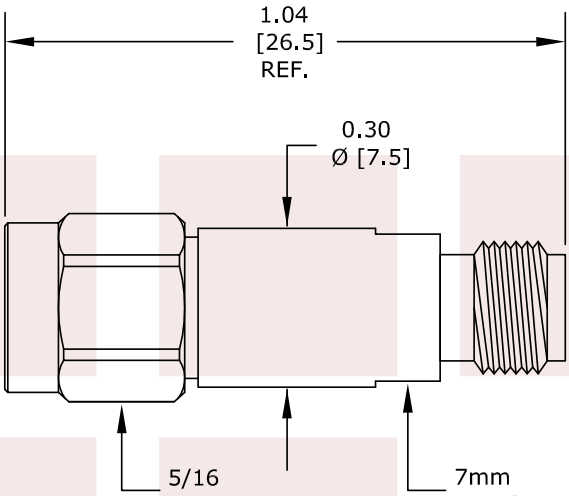



FIGURE 1

| P/N | ATTEN. | FIGURE |
|---|---|---|
| SA4018-01 | 1 dB | 1 |
| SA4018-02 | 2 dB | 1 |
| SA4018-03 | 3 dB | 1 |
| SA4018-04 | 4 dB | 1 |
| SA4018-05 | 5 dB | 1 |
| SA4018-06 | 6 dB | 1 |
| SA4018-10 | 10 dB | 1 |
| SA4018-15 | 15 dB | 1 |
| SA4018-20 | 20 dB | 1 |

FAIRVIEW MICROWAVE INC.
ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

TITLE
15 dB Fixed Attenuator 2.92mm Male To 2.92mm Female Up To 40 GHz Rated To 2 Watts With Passivated Stainless Steel Body

DWG NO SA4018 | CAGE CODE 3FKR5

CAD FILE 082615 | SHEET | SCALE N/A | SIZE A | 150

1130 Junction Dr. #100 Allen, TX 75013 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689